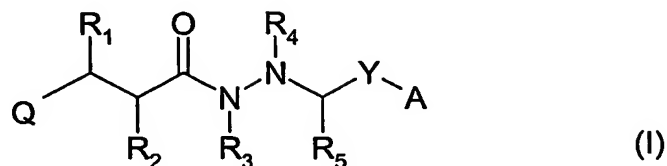


Claims:

1. A compound of formula (I) or a pharmaceutically or veterinarily acceptable salt, hydrate or solvate thereof



wherein

Q represents a radical of formula $-N(OH)CH(=O)$ or formula $-C(=O)NH(OH)$;

Y represents $-C(=O)-$, $-C(=S)-$, $-S(=O)-$, or $-SO_2-$;

R_1 represents hydrogen, C_1-C_6 alkyl or C_1-C_6 alkyl substituted by one or more halogen atoms, or, except when Q is a radical of formula $-N(OH)CH(=O)$, a hydroxy, C_1-C_6 alkoxy, C_1-C_6 alkenyloxy, halogen, amino, C_1-C_6 alkylamino, or di- (C_1-C_6 alkyl)amino group

R_2 represents a substituted or unsubstituted C_1-C_6 alkyl, C_1-C_3 alkyl-O- C_1-C_3 alkyl, C_1-C_3 alkyl-S- C_1-C_3 alkyl, cycloalkyl(C_1-C_3 alkyl)-, aryl(C_1-C_3 alkyl)-, heterocyclyl(C_1-C_3 alkyl)-, or $R^1R^2N-C_1-C_3$ alkyl group wherein R^1 represents hydrogen or C_1-C_3 alkyl and R^2 represents C_1-C_3 alkyl, or R^1R^2N- represents a cyclic amino group;

R_3 and R_5 independently represent hydrogen or a substituted or unsubstituted C_1-C_6 alkyl group or R_3 and R_5 taken together with the carbon and nitrogen atoms to which they are respectively attached form a saturated heterocyclic ring of from 5 to 7 ring atoms, which may be fused to a second carbocyclic or heterocyclic ring, either of which rings may optionally be substituted;

R_4 represents hydrogen or a substituted or unsubstituted C_1-C_6 alkyl, C_2-C_6 alkenyl,

C₂-C₆ alkynyl, cycloalkyl, aryl, heterocyclyl, C₁-C₃ alkyl-O-C₁-C₃ alkyl, C₁-C₃ alkyl-S-C₁-C₃ alkyl, C₁-C₃ alkyl-NH-(C₁-C₃ alkyl)-, cycloalkyl(C₁-C₃ alkyl)-, heterocyclic(C₁-C₃ alkyl)- or aryl(C₁-C₃ alkyl)- group; and

A represents a primary, secondary or tertiary amino group or a group -R₆, -OR₆, wherein R₆ is a substituted or unsubstituted C₁-C₆ alkyl, C₂-C₆ alkenyl, C₂-C₆ alkynyl, cycloalkyl, aryl, heterocyclyl, C₁-C₃ alkyl-O-(C₁-C₃ alkyl)-, C₁-C₃ alkyl-S-(C₁-C₃ alkyl)-, C₁-C₃ alkyl-NH-(C₁-C₃ alkyl)-, cycloalkyl(C₁-C₃ alkyl)-, heterocyclic(C₁-C₃ alkyl)- or aryl(C₁-C₃ alkyl)- group.

2. A compound as claimed in claim 1 wherein Q is an N-formyl hydroxylamine group -N(OH)CH(=O).
3. A compound as claimed in claim 1 or claim 2 wherein -Y- is -C(=O)- or -SO₂-.
4. A compound as claimed in any of the preceding claims wherein R₁ is hydrogen.
5. A compound as claimed in any of the preceding claims wherein R₂ is

optionally substituted C₁-C₆ alkyl, C₃-C₆ alkenyl, C₃-C₆ alkynyl or cycloalkyl;

phenyl(C₁-C₆ alkyl)-, phenyl(C₃-C₆ alkenyl)- or phenyl(C₃-C₆ alkynyl)- optionally substituted in the phenyl ring;

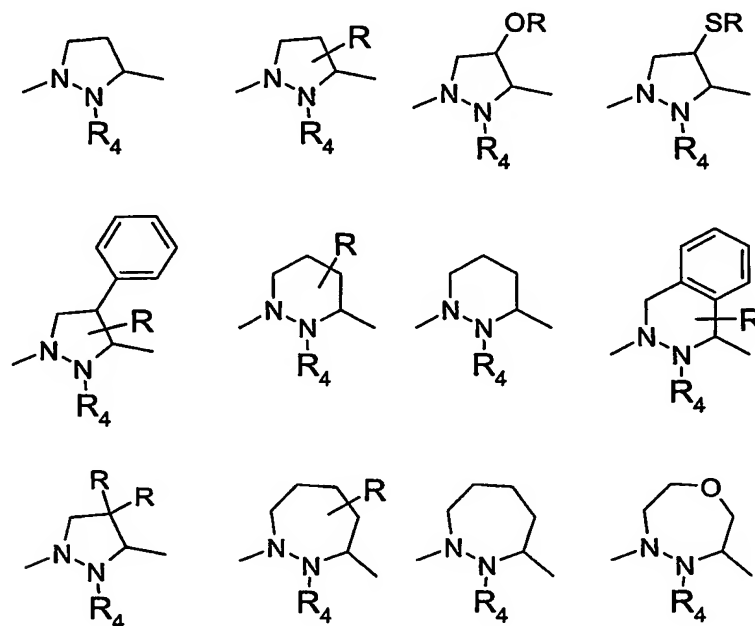
cycloalkyl(C₁-C₆ alkyl)-, cycloalkyl(C₃-C₆ alkenyl)- or cycloalkyl(C₃-C₆ alkynyl)- optionally substituted in the cycloalkyl ring; or

CH₃(CH₂)_pO(CH₂)_q- or CH₃(CH₂)_pS(CH₂)_q-, wherein p is 0, 1, 2 or 3 and q is 1, 2 or 3.
6. A compound as claimed in any of claims 1 to 4 wherein R₂ is methyl, ethyl, n-

or iso-propyl, n- or iso-butyl, n-pentyl, iso-pentyl, 3-methyl-but-1-yl, n-hexyl, n-heptyl, n-acetyl, n-octyl, methylsulfanylethyl, ethylsulfanylmethyl, 2-methoxyethyl, 2-ethoxyethyl, 2-ethoxymethyl, 3-hydroxypropyl, allyl, 3-phenylprop-3-en-1-yl, prop-2-yn-1-yl, 3-phenylprop-2-yn-1-yl, 3-(2-chlorophenyl)prop-2-yn-1-yl, but-2-yn-1-yl, cyclopentyl, cyclohexyl, cyclopentylmethyl, cyclopentylethyl, cyclopentylpropyl, cyclohexylmethyl, cyclohexylethyl, cyclohexylpropyl, furan-2-ylmethyl, furan-3-methyl, tetrahydrofuran-2-ylmethyl, tetrahydrofuran-2-ylmethyl, piperidinylmethyl, pyrid-2-ylmethyl, pyrid-3-ylmethyl, pyrid-4-ylmethyl, phenylpropyl, 4-chlorophenylpropyl, 4-methylphenylpropyl, 4-methoxyphenylpropyl, benzyl, 4-chlorobenzyl, 4-methylbenzyl, or 4-methoxybenzyl.

7. A compound as claimed in any of claims 1 to 4 wherein R_2 is (C_1-C_6) alkyl-, cycloalkylmethyl-, (C_1-C_3) alkyl-S- (C_1-C_3) alkyl-, or (C_1-C_3) alkyl-O- (C_1-C_3) alkyl-.
8. A compound as claimed in claim 7 wherein R_2 is n-propyl, n-butyl, n-pentyl, cyclopentylmethyl, cyclopentylethyl, cyclohexylmethyl or cyclohexylethyl.
9. A compound as claimed in any of the preceding claims wherein R_4 is hydrogen, (C_1-C_6) alkyl-, cycloalkylmethyl-, (C_1-C_3) alkyl-S- (C_1-C_3) alkyl-, or (C_1-C_3) alkyl-O- (C_1-C_3) alkyl-.
10. A compound as claimed in claim 9 wherein R_4 is hydrogen, methyl, ethyl, n-propyl, n-butyl, n-pentyl, cyclopentylmethyl, cyclopentylethyl, cyclohexylmethyl or cyclohexylethyl.
11. A compound as claimed in any of the preceding claims wherein R_3 and R_5 , when not part of a ring, are independently hydrogen, (C_1-C_6) alkyl-, cycloalkylmethyl-, (C_1-C_3) alkyl-S- (C_1-C_3) alkyl-, or (C_1-C_3) alkyl-O- (C_1-C_3) alkyl-.
12. A compound as claimed in claim 11 wherein R_3 and R_5 are independently hydrogen, methyl, ethyl, n-propyl, n-butyl, n-pentyl, cyclopentylmethyl, cyclopentylethyl, cyclohexylmethyl or cyclohexylethyl.

13. A compound as claimed in any of claims 1 to 10 wherein R_3 and R_5 taken together with the carbon and nitrogen atoms to which they are respectively attached form the following rings, wherein any sulfur atom present as a ring member may be oxidised to $-SO-$ or $-SO_2-$, R_4 is as defined in any preceding claim, and R represents hydrogen or C_1 - C_4 alkyl:



14. A compound as claimed in any of the preceding claims wherein A a group $-NR_6R_7$, $-R_6$, or $-OR_6$ wherein R_6 and R_7 independently represent a radical of formula (IV)



wherein

m, p and n are independently 0 or 1;

Z represents hydrogen or a carbocyclic or heterocyclic ring of 5 to 7 ring atoms which is optionally fused to a saturated or unsaturated carbocyclic or heterocyclic second ring of 5 to 7 ring atoms;

Alk¹ and Alk² independently represent divalent C₁-C₃ alkylene radicals;

X represents -O-, -S-, -S(O)-, -S(O₂)-, -C(=O)-, -NH-, -NR₇- where R₇ is C₁-C₃ alkyl;

and wherein

Alk¹, Alk² and Z when other than hydrogen, independently are optionally substituted by

(C₁-C₃)alkyl, (C₂-C₃)alkenyl, or (C₂-C₃)alkynyl,
phenyl, optionally substituted by (C₁-C₃)alkyl, (C₁-C₃)alkoxy, halo, nitro,
amino, mono- or di-(C₁-C₃)alkylamino, cyano or trifluoromethyl;

monocyclic 5 or 6-membered heterocyclic, optionally substituted by (C₁-
C₃)alkyl, (C₁-C₃)alkoxy, halo, nitro, amino, mono- or di-(C₁-
C₃)alkylamino, cyano or trifluoromethyl

benzyl, optionally substituted in the phenyl ring by (C₁-C₃)alkyl, (C₁-C₃)alkoxy,
halo, nitro, amino, mono- or di-(C₁-C₃)alkylamino, cyano or
trifluoromethyl,

hydroxy, phenoxy, (C₁-C₆)alkoxy, or hydroxy(C₁-C₆)alkyl,
mercapto, (C₁-C₆)alkylthio or mercapto(C₁-C₆)alkyl,

oxo,

nitro,

cyano

halo

-COOH, or -COOR^A,

-CONH₂, -CONHR^A, or -CONR^AR^B

-COR^A, -SO₂R^A,

-NHCOR^A,

-NH₂, -NHR^A, or -NR^AR^B,

wherein R^A and R^B are independently a (C₁-C₆) alkyl
group, R^A and R^B taken together with the nitrogen

atom to which they are attached form a 5- or 6-membered heterocyclic ring which may be substituted by (C₁-C₃)alkyl, hydroxy, or hydroxy(C₁-C₃)alkyl.

15. A compound as claimed in any of claims 1 to 13 wherein A is a group -NR₈R₉ wherein R₈ and R₉ when taken together with the nitrogen atom to which they are attached form a saturated heterocyclic ring of 5 to 8 atoms optionally fused to a saturated or unsaturated carbocyclic or heterocyclic second ring of 5 to 7 ring atoms, any of which rings being optionally substituted by a radical of formula (II) as defined above.

16 A compound as claimed in claim 15 wherein R₈ and R₉ when taken together with the nitrogen atom to which they are attached form an optionally substituted 1-pyrrolidinyl, piperidin-1-yl, 1-piperazinyl, hexahydro-1-pyridazinyl, morpholin-4-yl, tetrahydro-1,4-thiazin-4-yl, tetrahydro-1,4-thiazin-4-yl 1-oxide, tetrahydro-1,4-thiazin-4-yl 1,1-dioxide, hexahydroazipino, thiomorpholino, diazepino, or thiazolidinyl ring.

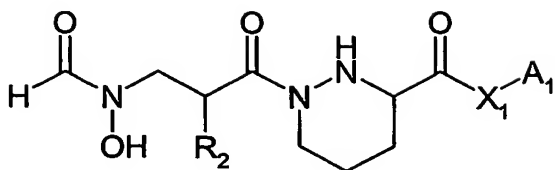
17 A compound as claimed in claim 15 wherein R₈ and R₉ when taken together with the nitrogen atom to which they are attached form an optionally substituted piperidin-1-yl or 1-piperazinyl ring.

18. A compound as claimed in claim 14 wherein in the group (IV) Alk¹ and Alk² independently represent -(CH₂)- or -(CH₂CH₂)-.

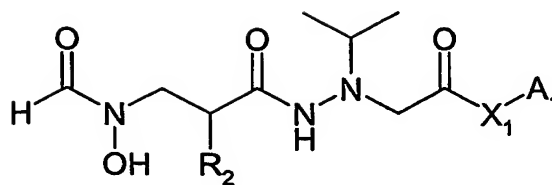
19 A compound as claimed in claim 14 or claim 18 wherein in the group (IV) m is 0, p is 1, and X is -C(=O)- or -S(O₂)-.

20. A compound as claimed in claim 1 of formulae (IIA) - (IID).

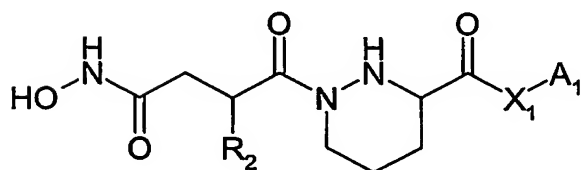
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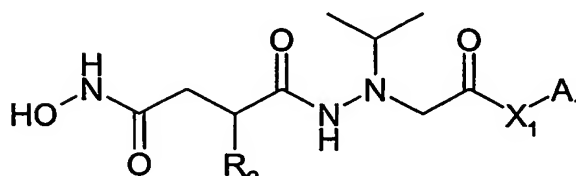
(IIA)



(IIB)



(IIC)



(IID)

wherein R_2 is as defined in any of the preceding claims;

X_1 is a bond, C_1 - C_3 alkylene, -NH- or -O-; and

A_1 is optionally substituted C_1 - C_6 alkyl, cycloalkyl, aryl, or heterocyclic, for example methyl, ethyl phenyl, cyclopentyl, cyclohexyl, 2- or 3-furanyl, 2- or 3-thienyl, 2-, 3- or 4-pyridyl, 3-, 4- or 5-pyrazolyl, 3-, 4- or 5-oxazolyl, or 3-, 4- or 5-thiazolyl, methoxymethyl, 3,5-bis-(trifluoromethyl)phenyl, 4-trifluoromethylphenyl, 4-methoxyphenyl, 3,4-methylenedioxyphenyl, 4-fluorophenyl benzyl, 3-pyridyl, 4-pyridyl, cyclohexyl, 1,3-dimethylpyrazol-5-yl, 1-methylimidazol-5-yl, and 2-[morpholin-1-yl]pyrid-5-yl.

21. A compound as claimed in claim 20 wherein R_2 is n-propyl, n-butyl, n-pentyl, cyclopentylmethyl, cyclopentylethyl, cyclohexylmethyl or cyclohexylethyl;

X_1 is a bond, - CH_2 -, - CH_2CH_2 -, - $CH_2CH_2CH_2$ -, -NH- or -O-; and

A_1 is methyl, ethyl phenyl, cyclopentyl, cyclohexyl, 2- or 3-furanyl, 2- or 3-thienyl, 2-, 3- or 4-pyridyl, 3-, 4- or 5-pyrazolyl, 3-, 4- or 5-oxazolyl, or 3-, 4- or 5-thiazolyl,

methoxymethyl, 3,5-bis-(trifluoromethyl)phenyl, 4-trifluoromethylphenyl, 4-methoxyphenyl, 3,4-methylenedioxyphenyl, 4-fluorophenyl benzyl, 3-pyridyl, 4-pyridyl, cyclohexyl, 1,3-dimethylpyrazol-5-yl, 1-methylimidazol-5-yl, or 2-[morpholin-1-yl]pyrid-5-yl.

22. A method for the treatment of bacterial infections in humans and non-human mammals, which comprises administering to a subject suffering such infection an antibacterially effective dose of a compound as claimed in any of the preceding claims.

23. The use of a compound as claimed in any of claims 1 to 21 for inhibiting bacterial growth in vitro and in vivo in mammals.

24. The use of a compound as claimed in any of claims 1 to 21 for the manufacture of a composition for treating bacterial infection by inhibiting bacterial growth.

25. A method for the treatment of bacterial contamination by applying an antibacterially effective amount of a compound as claimed in any of claims 1 to 21 to the site of contamination.

26. A pharmaceutical or veterinary composition comprising a compound as claimed in any of claims 1 to 21 together with a pharmaceutically or veterinarily acceptable carrier or excipient.